

2016

Sediment Contamination Study of Casco Bay part 5, Ramboll Environ PowerPoint 2016

Ramboll Environ

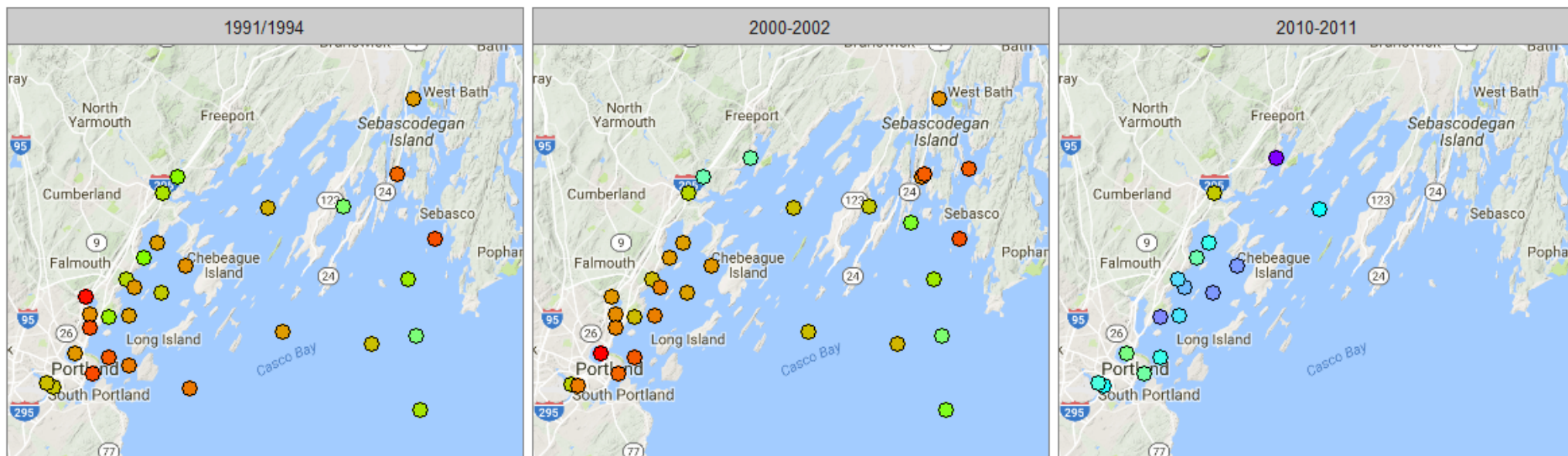
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RESULTS: 1991-2011 CASCO BAY DIOXINS AND FURANS

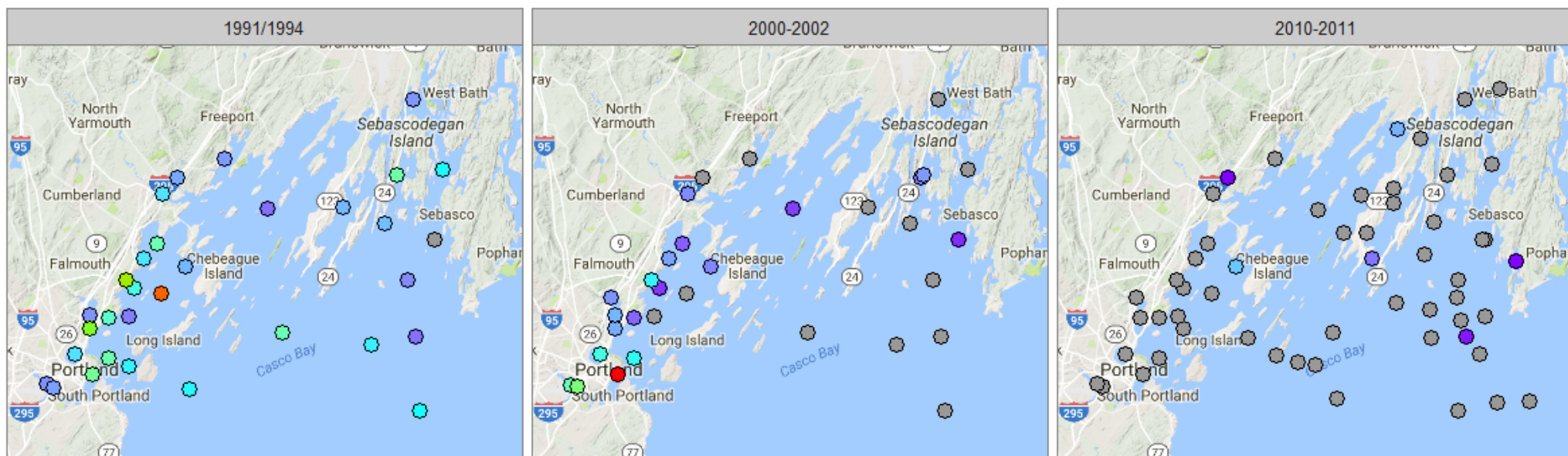


Total PCDD/PCDFs (ng/kg)

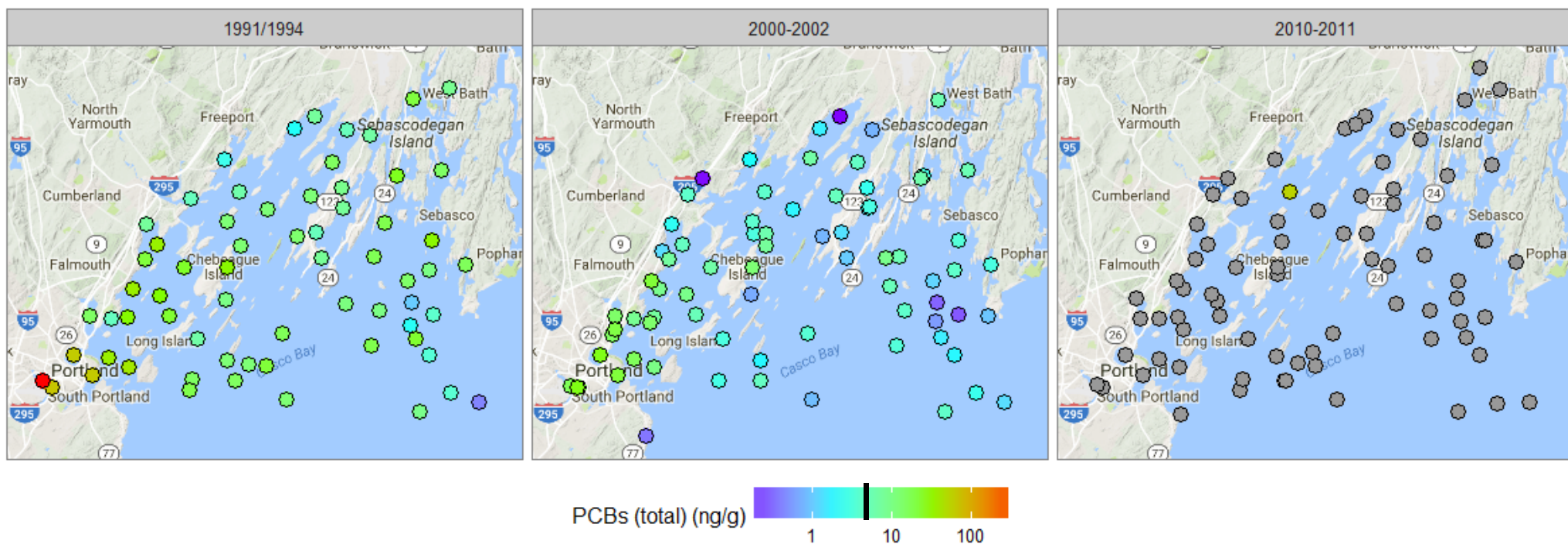
100 1000

Note: gray points are not detected

RESULTS: 1991-2011 CASCO BAY BUTYLTINS

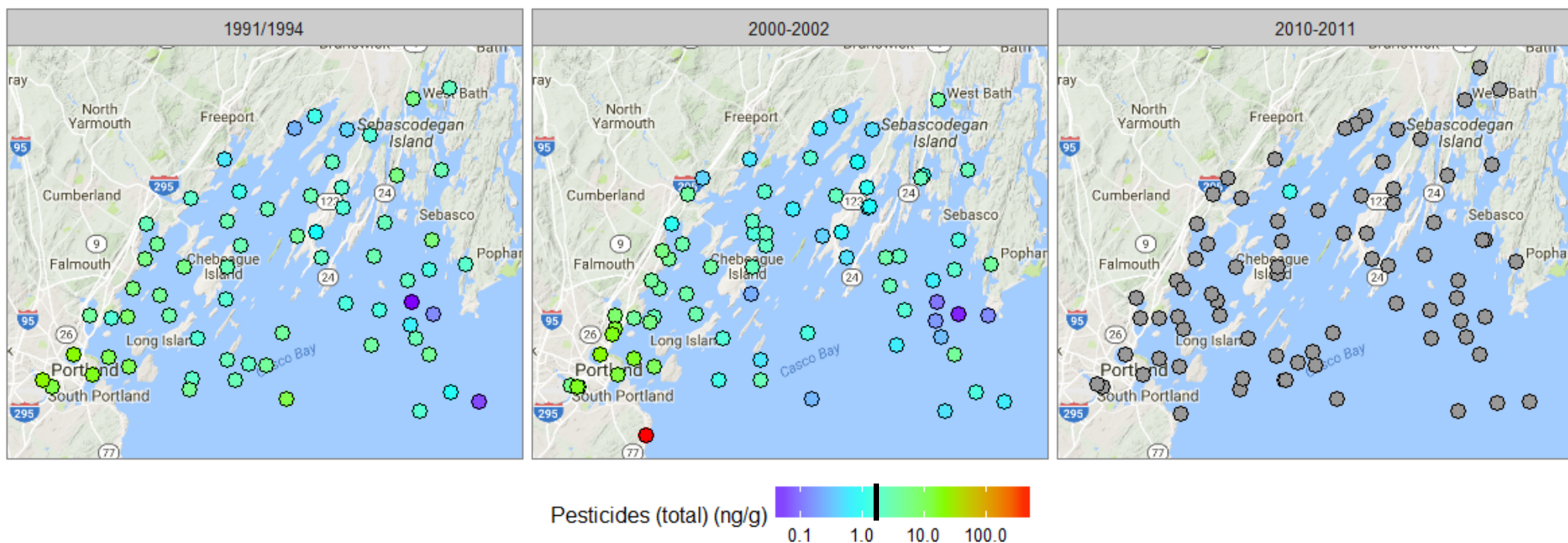


RESULTS: 1991-2011 CASCO BAY PCBS



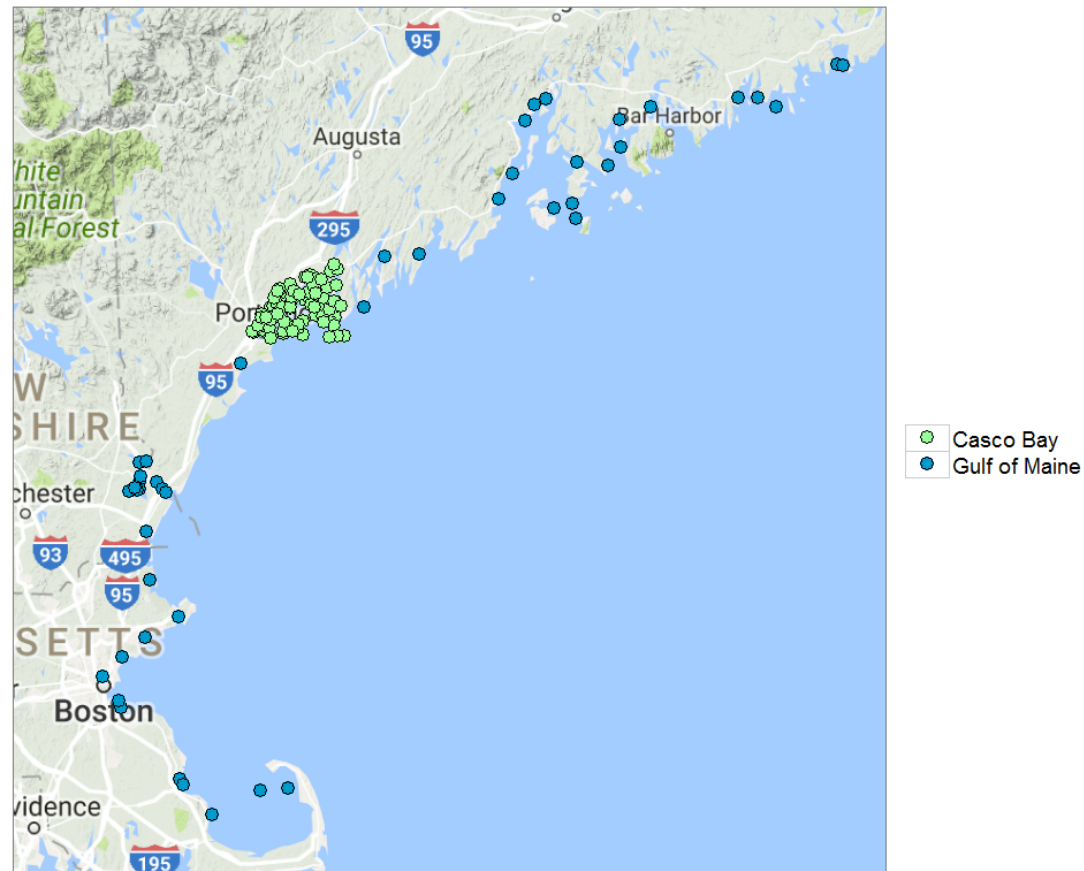
Note: gray points are not detected

RESULTS: 1991-2011 CASCO BAY TOTAL PESTICIDES

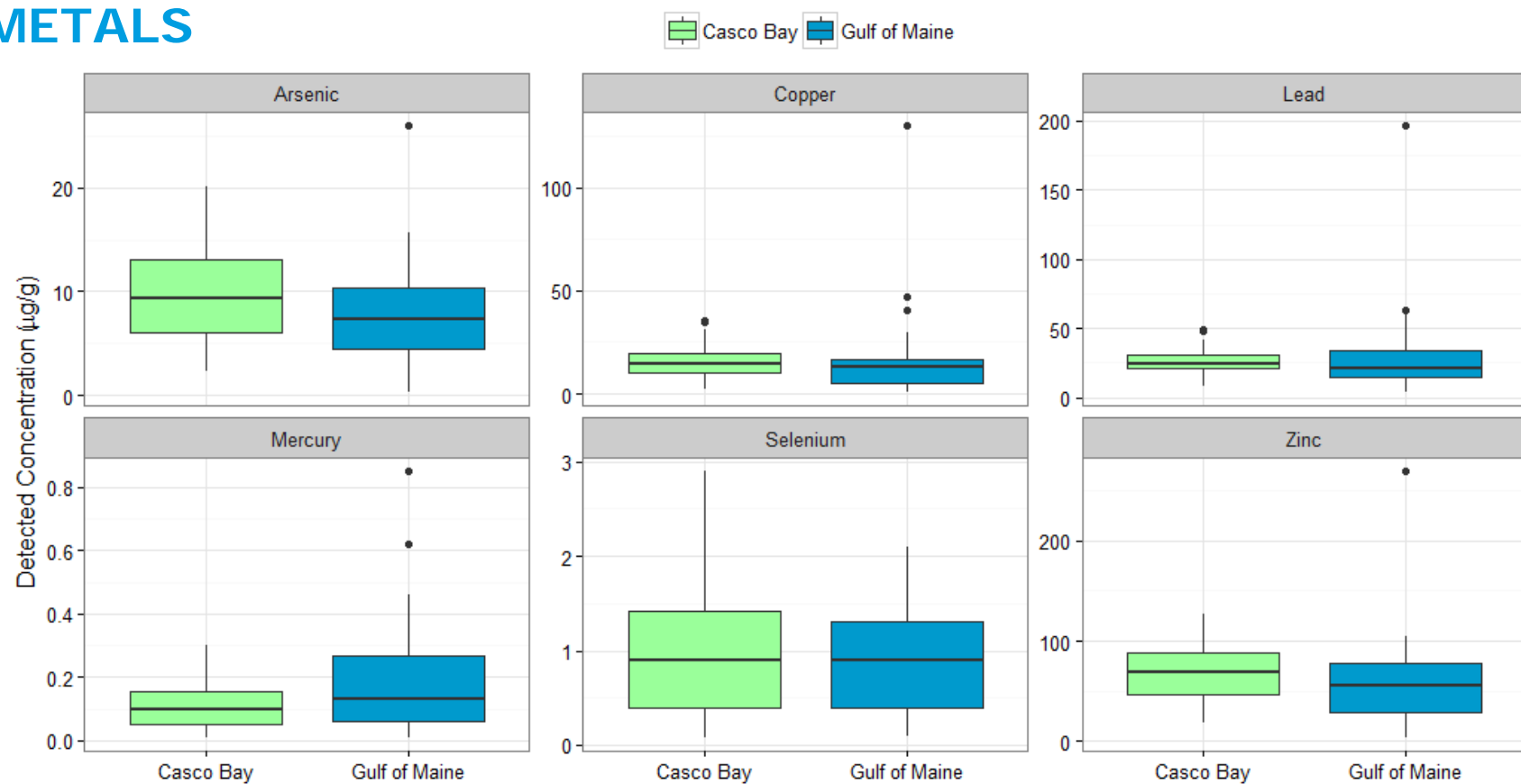


Note: gray points are not detected

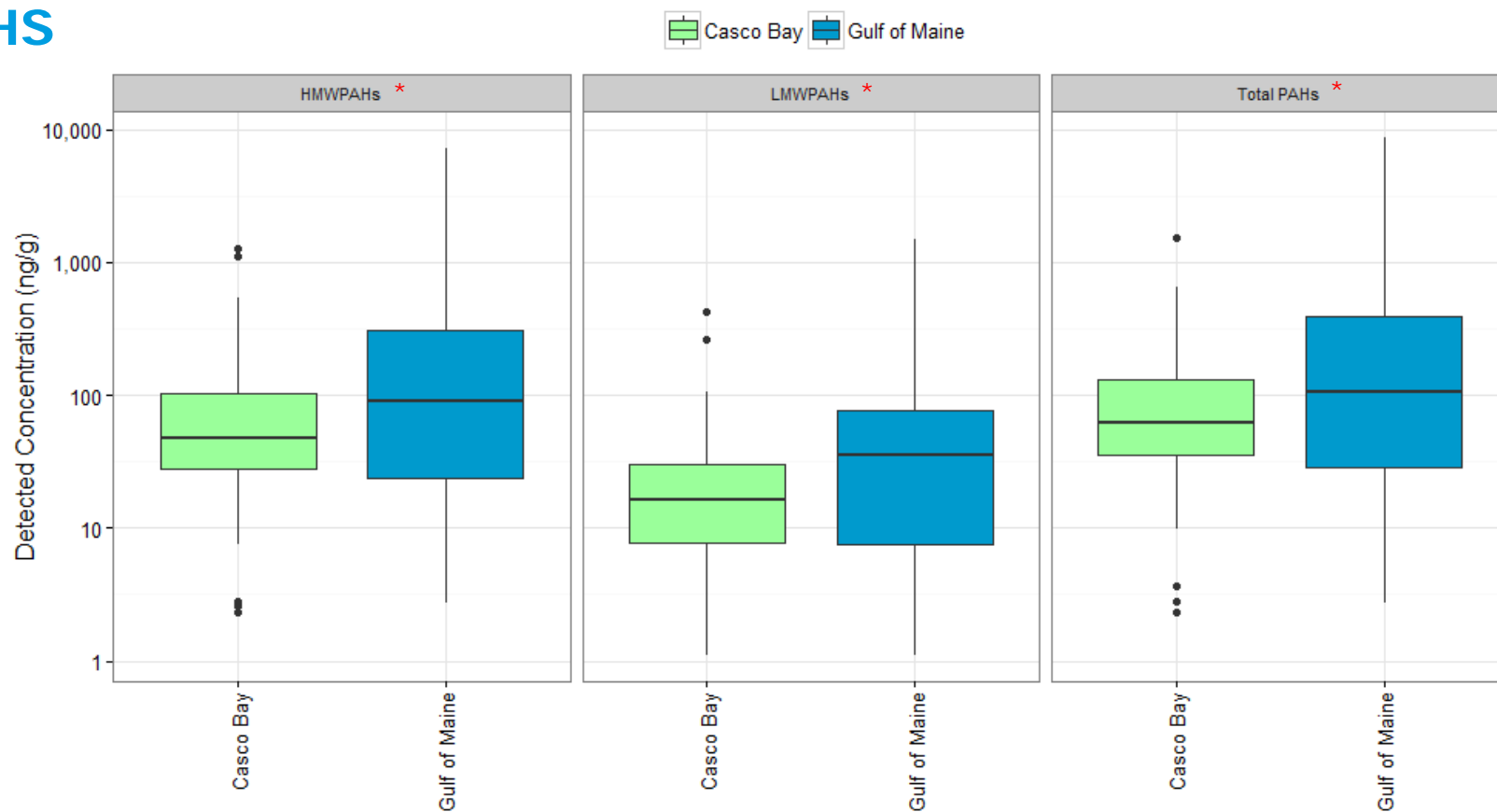
RESULTS: 2010 GULF OF MAINE



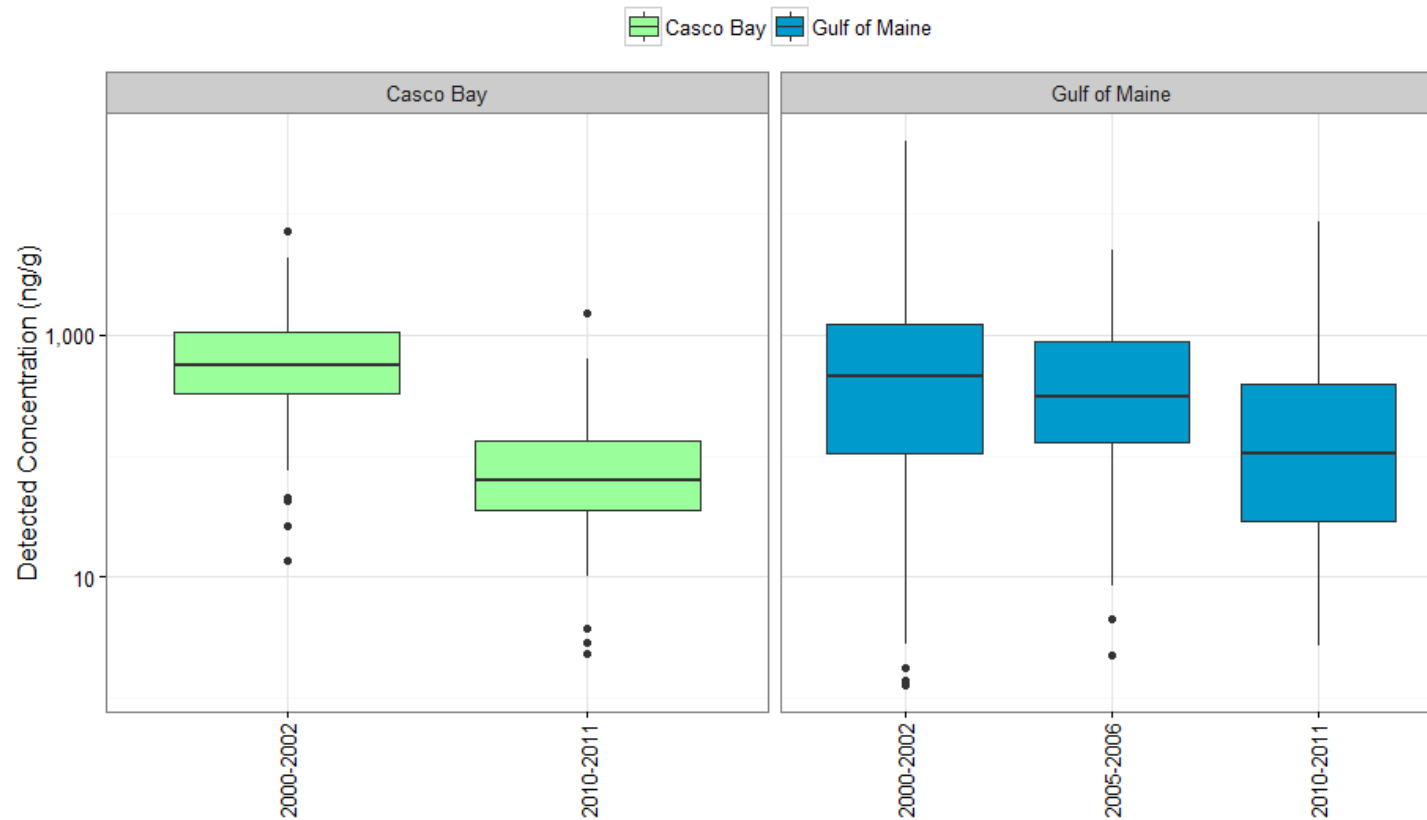
RESULTS: 2010 GULF OF MAINE METALS



RESULTS: 2010 GULF OF MAINE PAHS



RESULTS: 2000 - 2010 GULF OF MAINE PAHS



Total PAHs (ng/g)

10 100 1000 10000

Casco Bay Gulf of Maine

SEDIMENT ASSESSMENT OF CASCO BAY (1991-2011)
SEPTEMBER 14, 2016

SUMMARY

Chemical Group	Casco Bay 2010-2011	Casco Bay 1991-2011	Gulf of Maine (GoM)
Metals	Below screening values*	Declining/stable, <i>selenium?</i>	Consistent with GoM
PAHs	Below screening values	Decline since 2000-2002	Lower than GoM
Dioxins and Furans	Concentrations are low	Decline since 2000-2002	NA
Butyltins	Concentrations low, not detected	Decline over all sampling events	NA
PCBs	Rarely detected (elevated DL)	Expected continued decline	NA (rarely detected)
Pesticides	Rarely detected (elevated DL)	Expected continued decline	NA (rarely detected)

FUTURE RESEARCH CONSIDERATIONS

- Metals – selenium?
- PAHs – unexpected result, notable response to source reduction?
- Emerging Chemicals/Substances of Concern
 - Pesticides
 - Flame Retardants
 - Microplastics
 - Pharmaceuticals

THANK YOU